P/N:LBW-AM06-LNAM-18G40G-45

Широкополосный малошумящий усилитель сигналов переменного тока 18 ГГц — 40 ГГц

Характеристики:

- Выходная мощность: 14 дБм (тип.)
- Легкое управление от пикового до среднего значений
- Высокая линейность и низкий шум
- Встроенный радиатор с вентилятором

Области применения:

- Беспроводные сети
- 5G сети
- Оборудование для тестирования и измерений
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

Parameter	Min.	Typ.	Max.	Units
Frequency Range	18		40	GHz
Gain	40	45		dB
Gain Flatness		±2.0	±2.5	dB
Gain Variation Over Temperature (-40ºC~+85ºC)		±1.5	±2	dB
Noise Figure		2.0	3.0	dB
Input VSWR		2.0	3.0	: 1
Output VSWR		1.8	2.5	: 1
Output 1dB Compression Point (P1dB)	9	14		dBm
Saturated Output Power (Psat)		16		dBm
Output Third Order Intercept (OIP3)		27		dBm
Supply Current (Idd) (AC110~220V)		50		mA
Isolation S12		-60		dB

Weight	38.5ounces (Max.)	Impedance	50ohms
Input / Output Connectors	2.92mm-Female	Material	Aluminum
Finish	Gray Painted		

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Absolute Maximum Ratings

Operating Voltage	AC110~220V
RF Input Power(RFIN)	-25dBm

Note: Maximum RF input power is defined to protect the amplifier from damage.
Input power may be increased at the users own risk to achieve the full output power of the amplifier. Please reference gain and power curves and monitor the temperature.

Biasing Up Procedure

Step 1	Connect input and output with 50 Ohm source and load with in band return loss better than 10dB.
Step 2	Connect AC Plug
Step 3	Flip switch to “ON” position

Power OFF Procedure

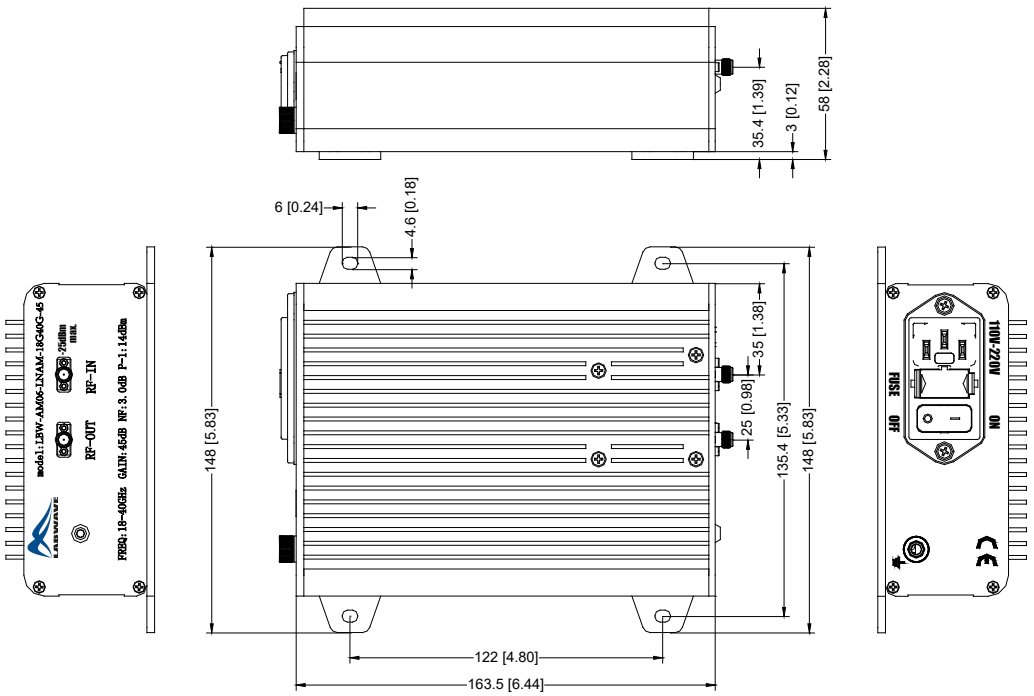
Step 1	Flip switch to “OFF” position
Step 2	Remove AC Plug
Step 3	Remove RF Connection

Environmental Specifications

Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches) Housing Tolerances ±1.5 (0.06)



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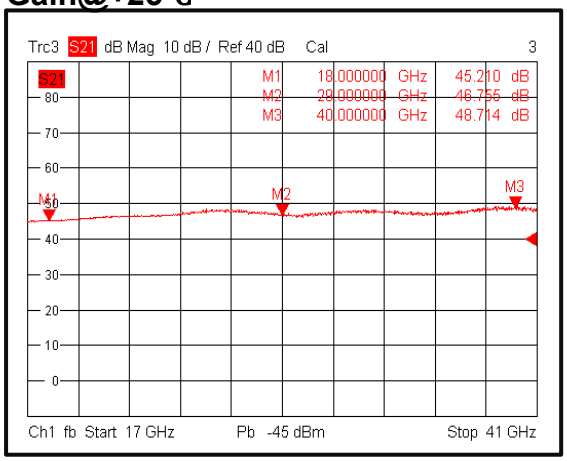
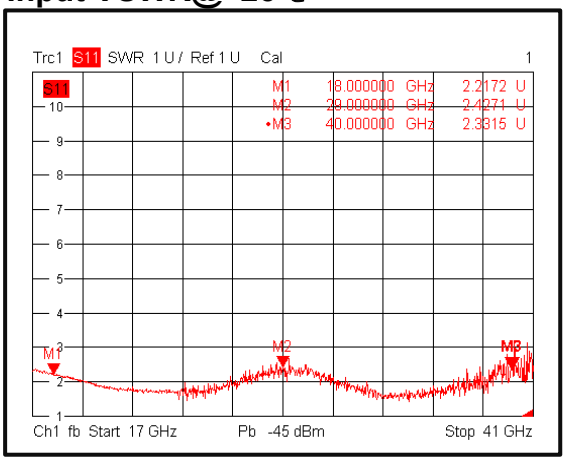
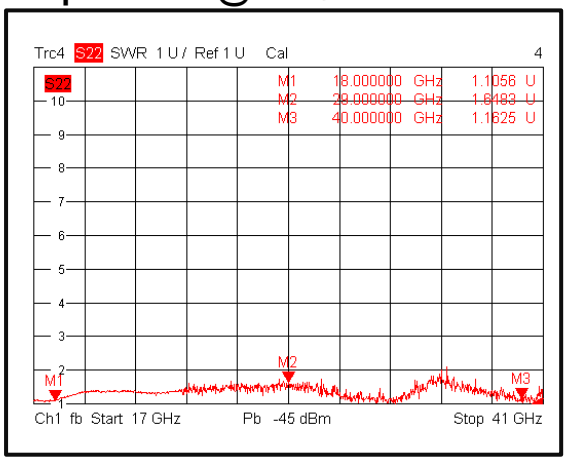
Gain@+25℃



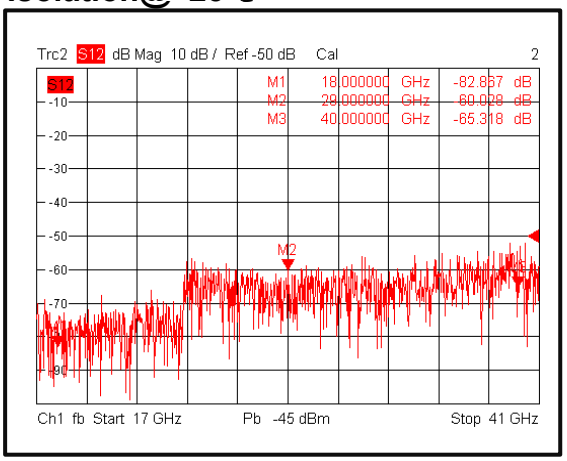
Input VSWR@+25℃



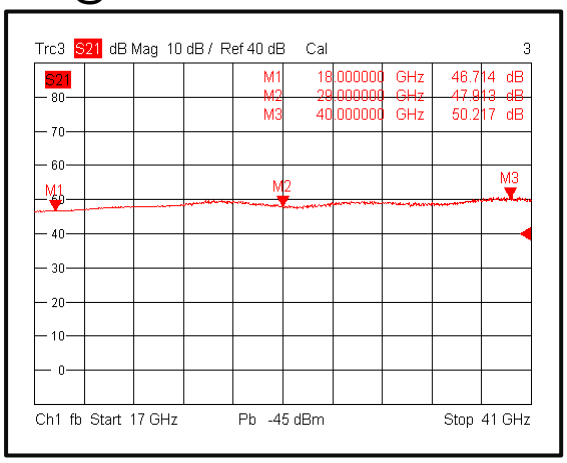
Output VSWR@+25℃



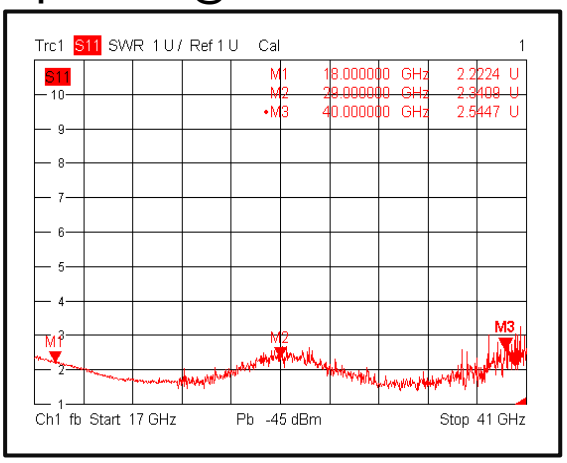
Isolation@+25℃



Gain@-40℃



Input VSWR@-40℃



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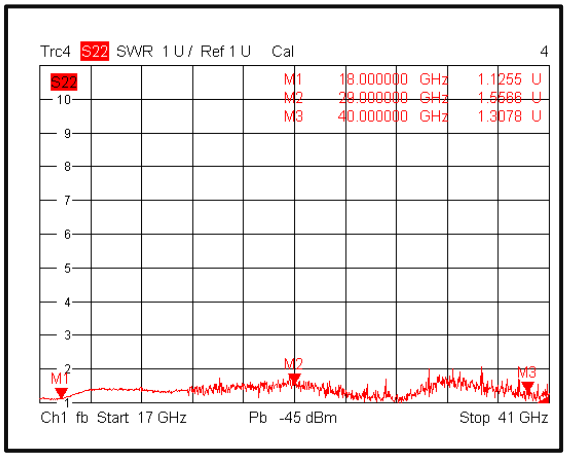
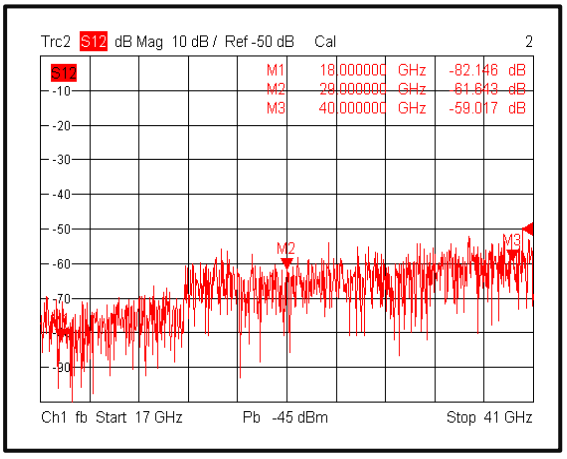
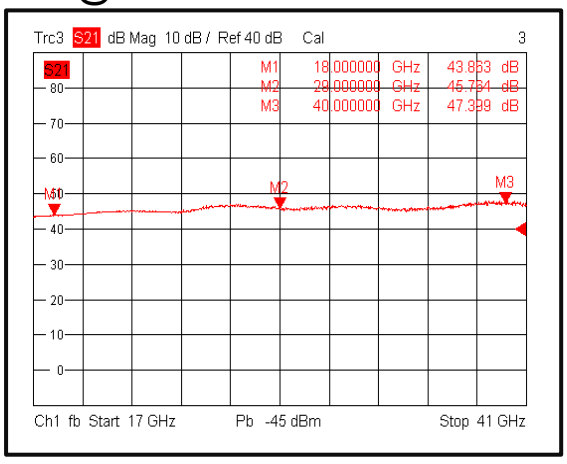
Output VSWR@-40℃



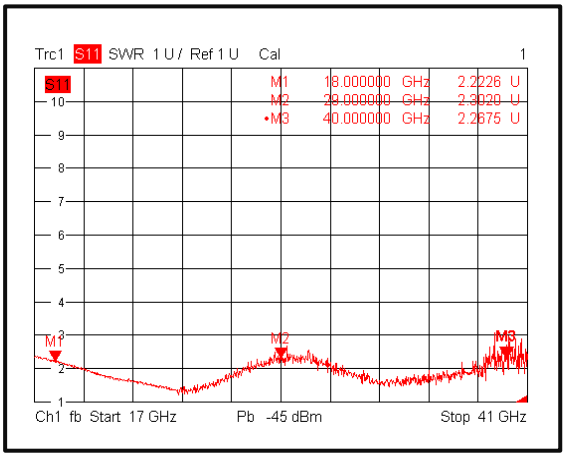
Isolation@-40℃



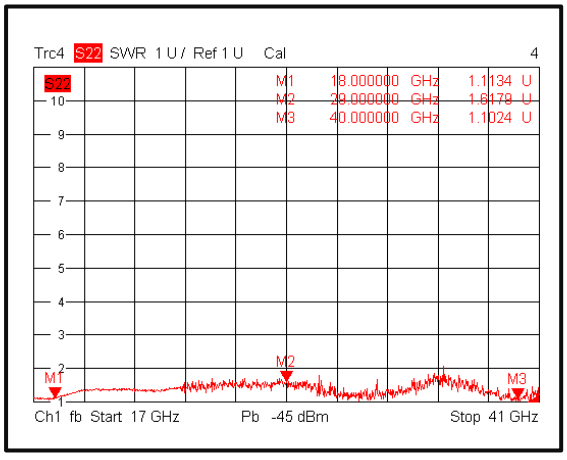
Gain@+85℃



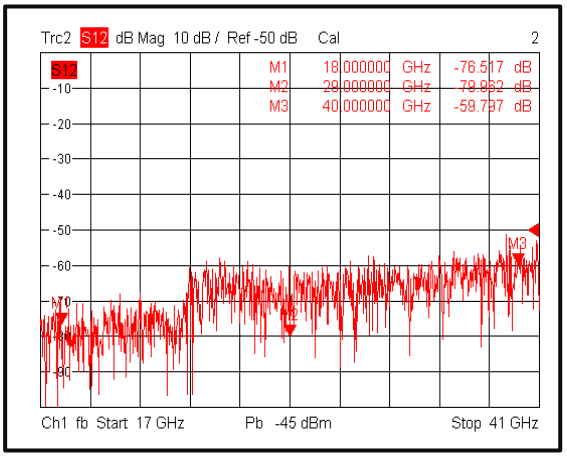
Input VSWR@+85℃



Output VSWR@+85℃



Isolation@+85℃



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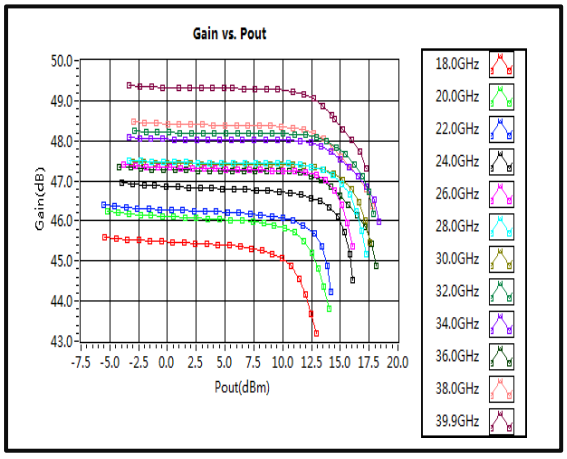
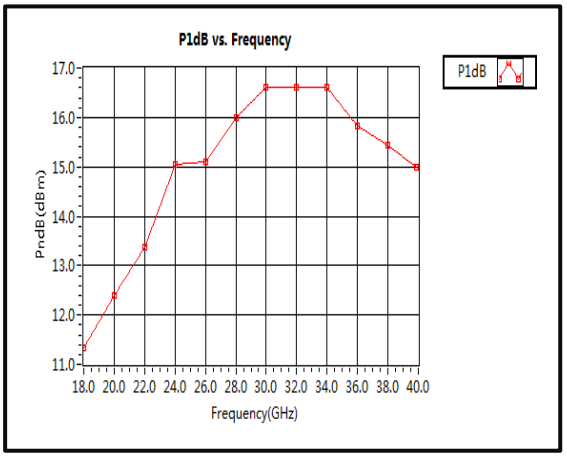
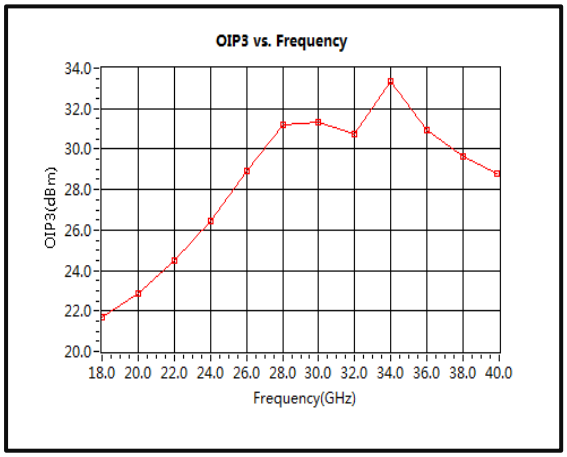
Gain vs. Output Power



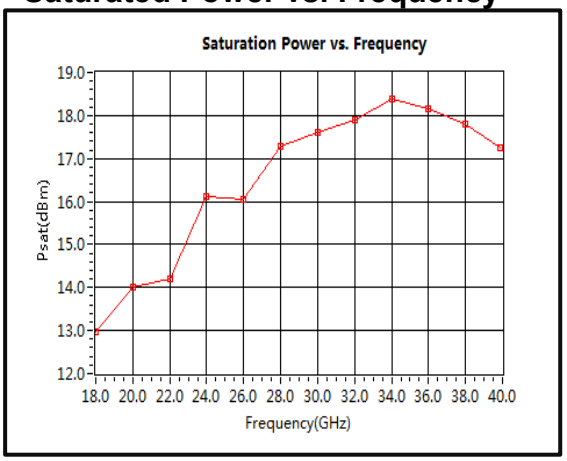
P1dB vs. Frequency



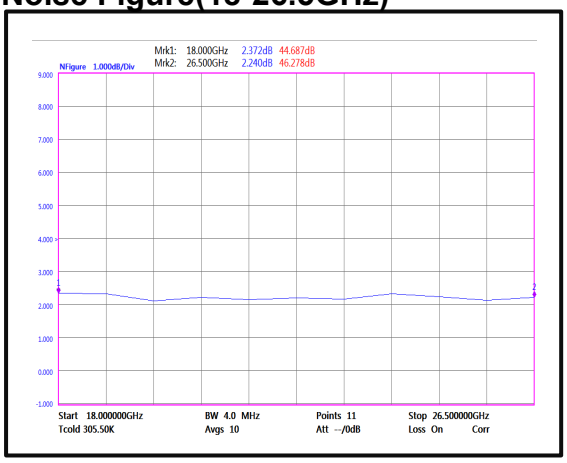
Output Third Order Intercept (OIP3)



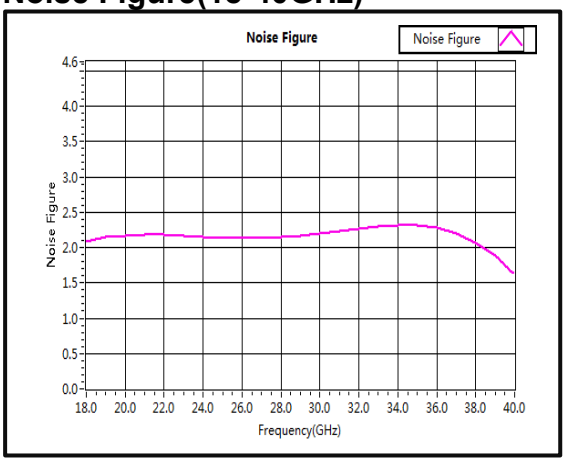
Saturated Power vs. Frequency



Noise Figure(18-26.5GHz)



Noise Figure(18-40GHz)



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Pout vs. Pin